

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims in accordance with the following:

1. (CURRENTLY AMENDED) A name/address translation device comprising:

~~a judging an identifying unit for judging identifying, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination is received from a communication source, whether a communication between the communication source and a communication destination is permitted or not, on the basis of a network type~~type of a network to which the communication source belongs and a network type of a network to which the communication destination respectively belong belongs;

~~a second judging unit for judging judging, based on a result of the judgment~~identification by the ~~judging unit~~identifying unit, whether or not a communication destination ~~to allow to give a response including the address corresponding to the name of the communication destination is given as a response to the communication source of the query~~; and

~~a response unit for acquiring giving the response, when the second judging unit judges that the address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source when the judging unit judges that it is allowable to give the response.~~

2. (CURRENTLY AMENDED) A name/address translation device comprising:

~~a receiving unit for receiving, from a communication source, a query about a communication destination an address corresponding to a name of a communication destination name, the query being transmitted from a first network and a second network;~~

an identifying unit for identifying networks to which a communication source having transmitted the query and the communication destination respectively belong which of a first network and a second network the communication source and the communication destination belong to each;

a searching unit for searching for an address of the communication destination to be given to the communication source as a response to the query when the identifying unit identifies that the communication source belongs to the first network and when that the communication destination belongs to the second network; and

a sending unit for sending the response containing the address of the communication destination to the communication source when the searching unit searches the address of the communication destination, and rejecting the query when the identifying unit identifies that the communication source belongs to the second network and the communication destination belongs to the first network

wherein the sending unit, when the communication source belongs to the second network and when the communication destination belongs to the first network, does not send the response containing the address of the communication destination.

3. (CURRENTLY AMENDED) A name/address translation device according to Claim 2,

wherein the sending unit invalidates sending the response, when if there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination when the identifying unit identifies that the communication source belongs to the first network and the communication destination belongs to the second network belonging to the second network, does not give the response of the communication destination address to the communication source.

4. (CURRENTLY AMENDED) A name/address translation device according to Claim 2, further comprising:

a notifying unit for notifying, when a response containing a second terminal corresponding to the communication destination belonging to the second network is given to a first terminal corresponding to the communication source belonging to the first network, a routing device of passage information for letting a data pass through that are forwarded between at the first terminal and at the second terminal, the routing device receiving, when a response of an

address of the second terminal corresponding to the communication destination belonging to the second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of the data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting an address translation between the first network and the second network.

5. (CURRENTLY AMENDED) A name/address translation device according to Claim 4,

wherein the notifying unit, when the routing device lets the data transmitted from the second terminal pass through, notifies the routing device of passage information containing an a first network address of used in the first network that is virtually assigned to the second terminal and an on the second network a second network address of that the second terminal uses on the second network, in order to so that the routing device translates, when a data transmitted from the second terminal passes through, the on-the-second-network second network address of the second terminal that is added as a source address to this piece of included in the data into an on-the-first the first network address, and

wherein the sending unit, when the first terminal adds the on-the-first-network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, sends a response containing the one-the-first-network first network address of the second terminal in order to so that the first terminal adds the first network address as a destination address to a data addressed to the second terminal to transmit the data addressed to the second terminal, and that the routing device translates, when the data addressed to the second terminal passes through, translates, when the data addressed to the second terminal passes through, the destination address added to this piece of data into the on-the-second-network second network address of the second terminal.

6. (PREVIOUSLY PRESENTED) A name/address translation device according to Claim 4, wherein the notifying unit notifies the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

7. (CURRENTLY AMENDED) A name/address translation device according to any one of Claim 4, wherein the notifying unit notifies, before the sending unit sends the address of the second terminal, the routing device of the passage information.

8. (CURRENTLY AMENDED) A name/address translation method making a computer functioning as a name/address translation device, ~~execute executed by a computer, comprising:~~

~~a judging step of judging, when identifying, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination is received from a communication source, whether a communication between a communication source and a communication destination is permitted or not, on the basis of a network type~~~~type of a network to which the communication source belongs and a network type of a network to which the communication destination respectively belong~~ belongs;

~~a second judging step of judging, based on a result of the judgment~~~~identification in the judging step~~~~identifying, whether or not a communication destination to allow to give a response including the address corresponding to the name of the communication destination is given as a response to the communication source of the query; and~~

~~a response step of acquiring, when it is judged in the second judging step that giving the response address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source when it is judged in the judging that it is allowable to give the response.~~

9. (CURRENTLY AMENDED) A name/address translation method making a computer functioning as a name/translation device, ~~execute executed by computer, comprising:~~

~~a receiving step of receiving, from a communication source, a query about a communication destination an address corresponding to a name of a communication destination name, the query being transmitted from a first network and a second network;~~

~~an identifying step of identifying networks to which a communication source having transmitted the query and the communication destination respectively belong which of a first network and a second network the communication source and the communication destination belong to each;~~

~~a searching step of searching for an address of the communication destination to be given to the communication source as a response to the query when it is identified in the identifying that the communication source belongs to the first network and when that the communication destination belongs to the second network; and~~

~~a sending step of sending the response containing the address of the communication destination to the communication source when the searching searches the address of the communication destination, and rejecting the query when it is identified in the identifying that the communication source belongs to the second network and the communication destination belongs to the first network;~~

~~wherein when the communication source belongs to the second network and when the communication destination belongs to the first network, the response containing the address of the communication destination is not sent.~~

10. (CURRENTLY AMENDED) A name/address translation method according to Claim 9,

~~wherein the computer sending includes invalidating sending the response, when if there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination belonging to the second network, when it is identified in the identifying that the communication source belongs to the second network and the communication destination belongs to the first network does not give the response of the communication destination address to the communication source.~~

11. (CURRENTLY AMENDED) A name/address translation method according to Claim 9, ~~wherein the computer further executes comprising:~~

~~a notifying step of notifying, when a response containing a second terminal corresponding to the communication destination belonging to the second network is given to a first terminal corresponding to the communication source belonging to the first network, a routing device of passage information for letting a data pass through that are forwarded between at the first terminal and at the second terminal, the routing device receiving, when a response of an address of the second terminal corresponding to the communication destination belonging to the second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of the data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting~~

an address translation between the first network and the second network.

12. (CURRENTLY AMENDED) A name/address translation method according to Claim 11,

wherein the computer, when the routing device lets the data transmitted from the second terminal pass through, notifies notifying includes notifying the routing device of passage information containing an a first network address of used in the first network that is virtually assigned to the second terminal and an on-the-second-network a second network address of that the second terminal uses on the second network, in order to so that the routing device translates, when a data transmitted from the second terminal passes through, the on-the-second-networksecond network address of the second terminal that is added as a source address to this piece of included in the data into an on-the-first-network the first network address, and

wherein the sending includes the computer, when the first terminal adds the on-the-first-network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, sends sending a response containing the one-the-first-network first network address of the second terminal in order to so that the first terminal adds the first network address as a destination address to a data addressed to the second terminal to transmit the data addressed to the second terminal, and that the routing device translates, when the data addressed to the second terminal passes through, the destination address added to this piece of data into the on-the-second-network second network address of the second terminal.

13. (CURRENTLY AMENDED) A name/address translation method according to Claim 11,

wherein the computer notifies notifying includes notifying the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

14. (CURRENTLY AMENDED) A name/address translation method according to any one of Claim 11,

wherein the computer notifies notifying includes notifying, before sending the address of the second terminal, the routing device of the passage information.

15. (CURRENTLY AMENDED) A computer-readable medium recording a program making embodied therein, the program being executed by a computer function as a name/address translation device or a recording medium recorded with this, the program, making the computer execute comprising steps of:

a judging step of judging identifying, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination is received from a communication source, whether a communication between a communication source and a communication destination is permitted or not, on the basis of a network type of a network to which the communication source belongs and a network type of a network to which the communication destination respectively belongs;

a second judging step of judging judging, based on a result of the judgment identification in the judging step identifying step, whether or not a communication destination to allow to give a response including the address corresponding to the name of the communication destination is given as a response to the communication source of the query; and

a response step of acquiring, when it is judged in the second judging step that giving the response address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source when it is judged in the judging step that it is allowable to give the response.

16. (CURRENTLY AMENDED) A computer-readable medium recording a program making embodied therein, the program being executed by a computer function as a name/address translation device or a recording medium recorded with this, the program, making the computer execute comprising steps of:

a receiving step of receiving, from a communication source, a query about a communication destination an address corresponding to a name of a communication destination name, the query being transmitted from a first network and a second network;

an identifying step of identifying networks to which a communication source having transmitted the query and the communication destination respectively belong which of a first network and a second network the communication source and the communication destination

belong to each:

a searching step of searching for an address of the communication destination to be given to the communication source as a response to the query when it is identified in the identifying step that the communication source belongs to the first network and when that the communication destination belongs to the second network; and

a sending step of sending the response containing the address of the communication destination to the communication source when it is searched in the searching step that the address of the communication destination, and rejecting the query when it is identified in the identifying step that the communication source belongs to the second network and the communication destination belongs to the first network;

wherein when the communication source belongs to the second network and when the communication destination belongs to the first network, a step of not sending the response containing the address of the communication destination is executed.

17. (CURRENTLY AMENDED) A program or a recording- The computer-readable medium recorded with this program according to Claim 16,

wherein the computer sending step includes invalidating sending the response, when if there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination belonging to the second network, executes a step of judging that the response of the communication destination address is not given to the communication source when it is identified in the identifying step that the communication source belongs to the first network and the communication destination belongs to the second network.

18. (CURRENTLY AMENDED) A program or a recording- The computer-readable medium recorded with this program according to Claim 16, wherein the computer further executes comprising step of:

a notifying step of notifying, when a response containing a second terminal corresponding to the communication destination belonging to the second network is given to a first terminal corresponding to the communication source belonging to the first network, a routing device of passage information for letting a data pass through that are forwarded between a the first terminal and a the second terminal, the routing device receiving, when a response of an address of the second terminal corresponding to the communication destination belonging to the

~~second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of the data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting an address translation between the first network and the second network.~~

19. (CURRENTLY AMENDED) ~~A program or a recording. The computer-readable medium recorded with this program according to Claim 18,~~

~~wherein the computer, when the routing device lets the data transmitted from the second terminal pass through, executes:~~

~~a notifying step of includes notifying the routing device of passage information containing an a first network address of used in the first network that is virtually assigned to the second terminal and an on-the-second-network second network address of that the second terminal uses in the second network in order to so that the routing device translates, when a data transmitted from the second terminal passes through, the on-the-second-network second network address of the second terminal that is added as a source address to this piece of included in the data into an on-the-first network the first network address, and~~

~~wherein a step of, when the first terminal adds the on-the-first network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, the sending step includes sending a response containing the one-the-first-network first network address of the second terminal in order to translate so that the first terminal adds the first network address as a destination address to a data addressed to the second terminal to transmit the data addressed to the second terminal, and that the routing device translates, when the data addressed to the second terminal passes through, the destination address added to this piece of data into the on-the-second-network second network address of the second terminal.~~

20. (CURRENTLY AMENDED) ~~A program or a recording. The computer-readable medium recorded with this program according to Claim 18,~~

~~wherein the computer executes a notifying step of includes notifying the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.~~

21. (CURRENTLY AMENDED) A ~~program or a recording~~ The computer-readable medium ~~recorded with this program~~ according to any one of Claim 18,

wherein the computer executes a notifying step of ~~includes~~ notifying, before sending the address of the second terminal in the sending step, the routing device of the passage information.